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IFIUDB
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NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
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NEWS 15 Jul 30 NETFIRST to be removed from STN
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now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced

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=> s tnf (p) receptor (p) releas? (p) enzyme (p) screen?

L1 1 TNF (P) RECEPTOR (P) RELEASE? (P) ENZYME (P) SCREEN?

=> s tnf (p) receptor (p) releas? (p) enzyme

L2 512 TNF (P) RECEPTOR (P) RELEASE? (P) ENZYME

=> s tnf (s) receptor (s) releas? (s) enzyme

L3 418 TNF (S) RECEPTOR (S) RELEASE? (S) ENZYME

=> s tnf (a) receptor (a) releas? (a) enzyme

L4 7 TNF (A) RECEPTOR (A) RELEASE? (A) ENZYME

=> S TRRE

L5 11 TRRE

=> s 14 of 15

MISSING OPERATOR L4 OF
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s 14 or 15

L6 13 L4 OR L5

=> dup rem 16

PROCESSING COMPLETED FOR L6
L7 9 DUP REM L6 (4 DUPLICATES REMOVED)

=> d 17

L7 ANSWER 1 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
1

AN 2001:514535 BIOSIS
DN PREV200100514535
TI Partial amino acid sequences of human TNF receptor
releasing enzyme.
AU Saganuma, Toshiyuki (1)
CS (1) Department of Biochemistry I, National Defense Medical College,
Tokorozawa, Saitama, 359-8513 Japan
SO Boei Ika Daigakko Zasshi, (March, 2001) Vol. 26, No. 1, pp. 11-21.
print.
ISSN: 0385-1796.
DT Article
LA English
SL English; Japanese

=> d 17 total ibib kwic

L7 ANSWER 1 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
1
ACCESSION NUMBER: 2001:514535 BIOSIS
DOCUMENT NUMBER: PREV200100514535
TITLE: Partial amino acid sequences of human TNF
receptor releasing enzyme.
AUTHOR(S): Saganuma, Toshiyuki (1)
CORPORATE SOURCE: (1) Department of Biochemistry I, National Defense Medical
College, Tokorozawa, Saitama, 359-8513 Japan
SOURCE: Boei Ika Daigakko Zasshi, (March, 2001) Vol. 26, No. 1,
pp.
11-21. print.
ISSN: 0385-1796.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English; Japanese
TI Partial amino acid sequences of human TNF receptor
releasing enzyme.
AB. . . of 30 and 40 kD sTNF-R by proteolytic cleavage of TNF-R protein.
The molecule with this enzymatic activity was termed TNF
receptor releasing enzyme (TRRE).
Here we purified human TRRE from the supernatant of
PMA-stimulated THP-1 cells. The partial amino acid sequences of human
TRRE revealed no complete identity to any other sequences in
databases. However, one of them showed 46% amino acid identity to. . .
surface antigen named MS2 (classified as ADAM8, ADAM: the proteins with a
disintegrin and metalloproteinase domain). This result suggests that
TRRE belongs to the ADAM family and is a separate molecule from
human TNF-alpha converting enzyme (TACE), which has 29% amino. . .
IT . . .
factor receptors; tumor necrosis factor receptor [TNF receptor];
extracellular domain, proteolytic cleavage, transmembrane domain;
tumor necrosis factor receptor releasing enzyme [TRRE]: ADAM family
member, amino acid sequence; tumor necrosis factor-alpha [TNF-alpha];
tumor necrosis factor-alpha converting enzyme

L7 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:736749 CAPLUS
DOCUMENT NUMBER: 132:2794
TITLE: Modulators affecting tumor necrosis factor
receptor-releasing enzyme activity
INVENTOR(S): Gatanaga, Tetsuya; Granger, Gale A.
PATENT ASSIGNEE(S): The Regents of the University of California, USA
SOURCE: PCT Int. Appl., 106 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: .

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-------------------|----------|
| WO 9958559 | A2 | 19991118 | WO 1999-US10793 | 19990514 |
| WO 9958559 | A3 | 20000120 | | |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2328133 | AA | 19991118 | CA 1999-2328133 | 19990514 |
| AU 9939960 | A1 | 19991129 | AU 1999-39960 | 19990514 |
| BR 9910458 | A | 20010102 | BR 1999-10458 | 19990514 |
| EP 1076710 | A2 | 20010221 | EP 1999-923115 | 19990514 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| JP 2002514402 | T2 | 20020521 | JP 2000-548361 | 19990514 |
| US 2002091243 | A1 | 20020711 | US 2000-752639 | 20001229 |
| PRIORITY APPLN. INFO.: | | | US 1998-81385 A | 19980514 |
| | | | WO 1999-US10793 W | 19990514 |
| | | | US 2000-712813 A1 | 20001113 |

AB The biol. effects of the cytokine tumor necrosis factor (TNF) are mediated

by binding to receptors on the surface of cells. Nine new proteins and polynucleotides are provided that promote enzymic cleavage and release of TNF receptors. The isolated polynucleotides have the following properties: (a) the sequence is expressed at the mRNA level in Jurkat T cells; (b) when COS-1 cells expressing TNF-receptor are genetically transformed to express the sequence, the cells have increased enzymic activity for cleaving and releasing the receptor. Also provided are screening methods for identifying addnl. compds. that influence TNF receptor shedding. TRRE activity alleviates septic shock and decreases tumor necrotizing activity, and the modulator expression products are effective in treating septic shock. As active ingredients

in

a pharmaceutical compn., the products of this invention increase or decrease TNF signal transduction, thereby alleviating the pathol. of disease.

ST tumor necrosis factor receptor releasing enzyme modulator; sequence TNF receptor releasing enzyme cDNA human; signal transduction TNF modulator screening; Jurkat cell TNF receptor releasing enzyme modulator

L7 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:324897 CAPLUS
DOCUMENT NUMBER: 129:13976
TITLE: Isolated tumor necrosis factor receptor releasing enzyme and pharmaceutical compositions comprising the enzyme
INVENTOR(S): Granger, Gale A.; Gatanaga, Tetsuya
PATENT ASSIGNEE(S): Regents of the University of California, USA;
Granger, Gale A.; Gatanaga, Tetsuya
SOURCE: PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 9820140 | A1 | 19980514 | WO 1997-US19930 | 19971105 |
| W: | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | |
| AU 9851621 | A1 | 19980529 | AU 1998-51621 | 19971105 |
| AU 744873 | B2 | 20020307 | | |
| EP 938548 | A1 | 19990901 | EP 1997-946457 | 19971105 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | |
| BR 9712900 | A | 20001128 | BR 1997-12900 | 19971105 |
| JP 2001508648 | T2 | 20010703 | JP 1998-521643 | 19971105 |
| KR 2000053073 | A | 20000825 | KR 1999-703993 | 19990504 |
| NO 9902187 | A | 19990701 | NO 1999-2187 | 19990505 |

PRIORITY APPLN. INFO.:

| | | |
|-----------------|---|----------|
| US 1996-30761P | P | 19961106 |
| WO 1997-US19930 | W | 19971105 |

AB A human tumor necrosis factor receptor releasing enzyme (**TRRE**) is prep'd. from a cultured human cell line THP-1 (human monocytic leukemia)

stimulated with PMA and characterized. The native form of **TRRE** exhibits a mol. wt. of 120 kDa on SDS-PAGE. Its enzyme activity is sensitive to metalloprotease inhibitor, but not to serine or cysteine protease inhibitor. A compn. contg. **TRRE** for treating a disease assoc'd. with altered levels of tumor necrosis factor is also described. Also claimed are methods of (1) diagnosing and treating cancer or inflammation assoc'd. with TNF and (2) administration of pharmaceutical compns. contg. TNF. Preferably, the **TRRE** activity is regulated local to the site of the condition to be treated. In the case of diseases

assoc'd. with elevated levels of TNF, such as rheumatoid arthritis, **TRRE** is administered to the site of inflammation in an amt. sufficient to decrease the local levels of TNF. In the case of diseases, such as cancer, that benefit from increased levels of TNF, the level of **TRRE** is decreased at the disease site.

ST tumor necrosis factor receptor releasing enzyme; **TNF receptor releasing enzyme** therapeutic diagnostic

L7 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1996:310251 BIOSIS

DOCUMENT NUMBER: PREV199699032607

TITLE: **TNF-receptor releasing**

enzyme is secreted by PMA-stimulated THP-1 cell line.

AUTHOR(S): Park, M.; Katsura, K.; Gatanaga, M.; Granger, G.; Gatanaga,

T.

CORPORATE SOURCE: Univ. Calif., Irvine, Dep. Mol. Biol. Biochem., Irvine, CA 92715 USA

SOURCE: FASEB Journal, (1996) Vol. 10, No. 6, pp. A1484.

Meeting Info.: Joint Meeting of the American Society for Biochemistry and Molecular Biology, the American Society for Investigative Pathology and the American Association of

of

Immunologists New Orleans, Louisiana, USA June 2-6, 1996
ISSN: 0892-6638.

DOCUMENT TYPE: Conference

LANGUAGE: English

TI TNF-receptor releasing enzyme is secreted by PMA-stimulated THP-1 cell line.

L7 ANSWER 5 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1996:257458 BIOSIS

DOCUMENT NUMBER: PREV199698813587

TITLE: Identification and characterization of soluble TNF receptor releasing enzyme (TRRE) from PMA-stimulated human monocytic THP-1 cells.

AUTHOR(S): Katsura, K. (1); Park, M. (1); Gatanaga, M. (1); Takishima, K.

K.; Granger, G. A. (1); Gatanaga, T. (1)

CORPORATE SOURCE: (1) Univ. Calif., Irvine, CA USA

SOURCE: Proceedings of the American Association for Cancer Research

Annual Meeting, (1996) Vol. 37, No. 0, pp. 492.
Meeting Info.: 87th Annual Meeting of the American Association for Cancer Research Washington, D.C., USA

April

20-24, 1996

ISSN: 0197-016X.

DOCUMENT TYPE: Conference

LANGUAGE: English

TI Identification and characterization of soluble TNF receptor releasing enzyme (TRRE) from PMA-stimulated human monocytic THP-1 cells.

L7 ANSWER 6 OF 9 MEDLINE

DUPPLICATE 2

ACCESSION NUMBER: 96222497 MEDLINE

DOCUMENT NUMBER: 96222497 PubMed ID: 8670199

TITLE: Identification of the proteolytic enzyme which cleaves human p75 TNF receptor in vitro.

AUTHOR: Katsura K; Park M; Gatanaga M; Yu E C; Takishima K; Granger G A; Gatanaga T

CORPORATE SOURCE: Department of Molecular Biology and Biochemistry, University of California, Irvine 92717-3900, USA.

SOURCE: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1996 May 15) 222 (2) 298-302.
Journal code: 0372516. ISSN: 0006-291X.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199608

ENTRY DATE: Entered STN: 19960819

Last Updated on STN: 20000303

Entered Medline: 19960806

AB . . . fragments, respectively. In this study, the enzymatic activity involved in the cleavage of human p75 TNF-R, named TNF-R releasing enzyme (TRRE), was identified in the culture supernatant of PMA-stimulated THP-1 cells using an activity assay system established by our group. When THP-1 cells were stimulated with PMA, TRRE was released rapidly into the supernatant, reaching maximal activity within 3 hours. The release of TRRE into the culture supernatant depended on the concentration of PMA and FCS. TRRE activity was partially inhibited by chelating agents, suggesting that TRRE may be a metallo-protease-like enzyme. This is the first successful attempt to establish a stable TRRE source with a reliable assay system.

L7 ANSWER 7 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1996:351439 BIOSIS

DOCUMENT NUMBER: PREV199699073795

TITLE: TNF-receptor releasing

enzyme is secreted by PMA-stimulated THP-1 cell

AUTHOR(S): Gatanaga, T.; Katsura, K.; Par M.; Gatanaga, M.;
Granger,
G.
CORPORATE SOURCE: Univ. California Irvine, Dep. Mol. Biol., Irvine, CA 92715
USA
SOURCE: European Cytokine Network, (1996) Vol. 7, No. 2, pp. 166.
Meeting Info.: 6th International Tumor Necrosis Factor
Congress Rhodes, Greece May 8-12, 1996
ISSN: 1148-5493.
DOCUMENT TYPE: Conference
LANGUAGE: English
TI **TNF-receptor releasing enzyme is**
secreted by PMA-stimulated THP-1 cell line.

L7 ANSWER 8 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1993:227104 BIOSIS
DOCUMENT NUMBER: PREV199395118279
TITLE: Do birch trees (*Betula pendula*) grow better if foraged by
wood ants.
AUTHOR(S): Mahdi, T.; Whittaker, J. B.
CORPORATE SOURCE: Biological Sci. Div., Inst. Environmental and Biological
Sci., Univ. Lancaster, Lancaster LA1 4YQ UK
SOURCE: Journal of Animal Ecology, (1993) Vol. 62, No. 1, pp.
101-116.
ISSN: 0021-8790.
DOCUMENT TYPE: Article
LANGUAGE: English
AB. . . of the insect herbivore community on *Betula pendula* is markedly
changed by *F. rufa* predation, the effect of this on tree growth
is slight.

L7 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1985:1908 CAPLUS
DOCUMENT NUMBER: 102:1908
TITLE: The tolerance of tree lucerne to some soil-applied
herbicide
AUTHOR(S): Hurrell, G. A.; Bourdot, G. W.
CORPORATE SOURCE: Agric. Res. Div., MAF, Lincoln, N. Z.
SOURCE: Proc. N. Z. Weed Pest Control Conf. (1984), 37th,
210-12
CODEN: PZWPAL; ISSN: 0370-2804
DOCUMENT TYPE: Journal
LANGUAGE: English
IT Plant growth and development
(by tree lucerne, soil-applied herbicides effect on)

=> s gatanaga/au

L8 0 GATANAGA/AU

=> s granger/au

L9 0 GRANGER/AU

=> s granger?/au

L10 8680 GRANGER?/AU

=> s gatanaga?/au

L11 218 GATANAGA?/AU

=> s 110 and 111

L12 122 L10 AND L11

=> s gatanaga t /au

L13 118 GATANAGA T

=> s granger g a /au

L14 450 GRANGER G A

=> s l13 and l14

L15 73 L13 AND L14

=> dup rem l15

PROCESSING COMPLETED FOR L15

L16 38 DUP REM L15 (35 DUPLICATES REMOVED)

=> d l16 ibib

L16 ANSWER 1 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1996:300898 BIOSIS

DOCUMENT NUMBER: PREV199699023254

TITLE: Serum TNF-alpha and TNF soluble receptors in inflammatory bowel disease.

AUTHOR(S): Procaccino, F. (1); Hwang, C.; Gatanaga, T.;

Patel, A. (1); Eysselein, V. E. (1); Granger, G. A.

CORPORATE SOURCE: (1) Inflammatory Bowel Dis. Cent., Harbor-UCLA Med. Cent., Torrance, CA USA

SOURCE: Gastroenterology, (1996) Vol. 110, No. 4 SUPPL., pp.

A995.

Meeting Info.: 96th Annual Meeting of the American Gastroenterological Association and the Digestive Disease Week San Francisco, California, USA May 19-22, 1996
ISSN: 0016-5085.

DOCUMENT TYPE: Conference

LANGUAGE: English

=> d l16 total ibib

L16 ANSWER 1 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1996:300898 BIOSIS

DOCUMENT NUMBER: PREV199699023254

TITLE: Serum TNF-alpha and TNF soluble receptors in inflammatory bowel disease.

AUTHOR(S): Procaccino, F. (1); Hwang, C.; Gatanaga, T.;

Patel, A. (1); Eysselein, V. E. (1); Granger, G. A.

CORPORATE SOURCE: (1) Inflammatory Bowel Dis. Cent., Harbor-UCLA Med. Cent., Torrance, CA USA

SOURCE: Gastroenterology, (1996) Vol. 110, No. 4 SUPPL., pp.

A995.

Meeting Info.: 96th Annual Meeting of the American Gastroenterological Association and the Digestive Disease Week San Francisco, California, USA May 19-22, 1996
ISSN: 0016-5085.

DOCUMENT TYPE: Conference

LANGUAGE: English

L16 ANSWER 2 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1996:257458 BIOSIS

DOCUMENT NUMBER: PREV199698813587

TITLE: Identification and characterization of soluble TNF receptor

monocytic releasing enzyme (TRRE) from PMA-stimulated human THP-1 cells.
AUTHOR(S): Katsura, K. (1); Park, M. (1); Gatanaga, M. (1);
Takishima, K.; Granger, G. A. (1); Gatanaga, T. (1)
COPORATE SOURCE: (1) Univ. Calif., Irvine, CA USA
SOURCE: Proceedings of the American Association for Cancer Research
Annual Meeting, (1996) Vol. 37, No. 0, pp. 492.
Meeting Info.: 87th Annual Meeting of the American Association for Cancer Research Washington, D.C., USA

April 20-24, 1996
ISSN: 0197-016X.

DOCUMENT TYPE: Conference
LANGUAGE: English

L16 ANSWER 3 OF 38 MEDLINE DUPLICATE 1
ACCESSION NUMBER: 96222497 MEDLINE
DOCUMENT NUMBER: 96222497 PubMed ID: 8670199
TITLE: Identification of the proteolytic enzyme which cleaves human p75 TNF receptor in vitro.
AUTHOR: Katsura K; Park M; Gatanaga M; Yu E C; Takishima K; Granger G A; Gatanaga T
COPORATE SOURCE: Department of Molecular Biology and Biochemistry, University of California, Irvine 92717-3900, USA.
SOURCE: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1996 May 15) 222 (2) 298-302.
Journal code: 0372516. ISSN: 0006-291X.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199608
ENTRY DATE: Entered STN: 19960819
Last Updated on STN: 20000303
Entered Medline: 19960806

L16 ANSWER 4 OF 38 MEDLINE DUPLICATE 2
ACCESSION NUMBER: 96258290 MEDLINE
DOCUMENT NUMBER: 96258290 PubMed ID: 8660816
TITLE: Prostaglandin-E2 regulation of tumor necrosis factor receptor release in human monocytic THP-1 cells.
AUTHOR: Choi S S; Gatanaga M; Granger G A; Gatanaga T
COPORATE SOURCE: Department of Molecular Biology and Biochemistry, University of California-Irvine, Irvine, California 92717, USA.
SOURCE: CELLULAR IMMUNOLOGY, (1996 Jun 15) 170 (2) 178-84.
Journal code: 1246405. ISSN: 0008-8749.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199608
ENTRY DATE: Entered STN: 19960822
Last Updated on STN: 19960822
Entered Medline: 19960809

L16 ANSWER 5 OF 38 MEDLINE DUPLICATE 3
ACCESSION NUMBER: 96075714 MEDLINE
DOCUMENT NUMBER: 96075714 PubMed ID: 7584672
TITLE: Spontaneous release of interleukin-6 by primary cultures of lymphoid and tumor cell populations purified from human

AUTHOR: ovarian carcinoma.
Burger R A; Grosen E A; Ioli G R; Van Eden M E; Park M;
Berman M L; Manetta A; Disaia P J; Granger G A;
Gatanaga T

CORPORATE SOURCE: Department of Molecular Biology and Biochemistry,
University of California, Irvine 92717, USA.

SOURCE: JOURNAL OF INTERFERON AND CYTOKINE RESEARCH, (1995 Mar) 15
(3) 255-60.
Journal code: 9507088. ISSN: 1079-9907.

PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199512
ENTRY DATE: Entered STN: 19960124
Last Updated on STN: 19970203
Entered Medline: 19951206

L16 ANSWER 6 OF 38 MEDLINE DUPLICATE 4

ACCESSION NUMBER: 95047799 MEDLINE
DOCUMENT NUMBER: 95047799 PubMed ID: 7959299
TITLE: Host-tumor interaction in ovarian cancer. Spontaneous release of tumor necrosis factor and interleukin-1 inhibitors by purified cell populations from human ovarian carcinoma in vitro.
AUTHOR: Burger R A; Grosen E A; Ioli G R; Van Eden M E; Brightbill H D; Gatanaga M; DiSaia P J; Granger G A;
Gatanaga T

CORPORATE SOURCE: Department of Molecular Biology and Biochemistry,
University of California at Irvine 92717.

SOURCE: GYNECOLOGIC ONCOLOGY, (1994 Nov) 55 (2) 294-303.
Journal code: 0365304. ISSN: 0090-8258.

PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199412
ENTRY DATE: Entered STN: 19950110
Last Updated on STN: 19970203
Entered Medline: 19941227

L16 ANSWER 7 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1994:379682 BIOSIS
DOCUMENT NUMBER: PREV199497392682
TITLE: 75-kDa TNF receptor mediates aggregation of human T-LAK cells in vitro.
AUTHOR(S): Abe, Y. (1); Kimura, K. (1); Kimura, S. (1); Gatanaga, T.; Granger, G. A.
CORPORATE SOURCE: (1) Second Dep. Surg., Ehime Univ. Sch. Med., Shigenobu, Ehime 791-02 Japan
SOURCE: European Cytokine Network, (1994) Vol. 5, No. 2, pp. 141.
Meeting Info.: 5th International Congress on Tumor Necrosis
Factor Monterey, California, USA May 30-June 3, 1994
ISSN: 1148-5493.

DOCUMENT TYPE: Conference
LANGUAGE: English

L16 ANSWER 8 OF 38 MEDLINE DUPLICATE 5

ACCESSION NUMBER: 94044788 MEDLINE
DOCUMENT NUMBER: 94044788 PubMed ID: 8228252
TITLE: Mechanism of release of soluble forms of tumor necrosis factor/lymphotoxin receptors by phorbol myristate acetate-stimulated human THP-1 cells in vitro.
AUTHOR: Hwang C; Gatanaga M; Granger G A; Gatanaga T

CORPORATE SOURCE: Department of Molecular Biology and Biochemistry,
University of California at Irvine 92717.
SOURCE: JOURNAL OF IMMUNOLOGY, (1993 Nov 15) 151 (10) 5631-8.
Journal code: 2985117R. ISSN: 0022-1767.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 199312
ENTRY DATE: Entered STN: 19940117
Last Updated on STN: 20000303
Entered Medline: 19931210

L16 ANSWER 9 OF 38 MEDLINE DUPLICATE 6
ACCESSION NUMBER: 93267109 MEDLINE
DOCUMENT NUMBER: 93267109 PubMed ID: 8098725
TITLE: Role of 55- and 75-kDa tumor necrosis factor membrane receptors in the regulation of intercellular adhesion molecules-1 expression by HL-60 human promyelocytic leukemia cells in vitro.
AUTHOR: Abe Y; Gatanaga M; Osuka Y; Kimura S; Burger R A;
Granger G A; Gatanaga T
CORPORATE SOURCE: Molecular Biology and Biochemistry, University of California, Irvine 92717-3900.
SOURCE: JOURNAL OF IMMUNOLOGY, (1993 Jun 1) 150 (11) 5070-9.
Journal code: 2985117R. ISSN: 0022-1767.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 199306
ENTRY DATE: Entered STN: 19930702
Last Updated on STN: 19970203
Entered Medline: 19930622

L16 ANSWER 10 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1994:89561 BIOSIS
DOCUMENT NUMBER: PREV199497102561
TITLE: Original of released tumor necrosis factor and soluble tumor necrosis factor receptors in ovarian carcinoma.
AUTHOR(S): Burger, R. A.; Grosen, E. A.; Gatanaga, M.; Disaia, P. J.; Berman, M. L.; Manetta, A.; Granger, G. A.;
Gatanaga, T.
CORPORATE SOURCE: University California, Irvine, Irvine, CA 92717-3900 USA
SOURCE: Lymphokine and Cytokine Research, (1993) Vol. 12, No. 5, pp. 380.
Meeting Info.: Combined Meeting of the 8th International Lymphokine Workshop and the 4th International Workshop on Cytokines: Lymphokines and Cytokines from Clone to Clinic Osaka, Japan October 17-21, 1993
ISSN: 1056-5477.
DOCUMENT TYPE: Conference
LANGUAGE: English

L16 ANSWER 11 OF 38 MEDLINE DUPLICATE 7
ACCESSION NUMBER: 93323479 MEDLINE
DOCUMENT NUMBER: 93323479 PubMed ID: 8392647
TITLE: Hypoxia induces a human macrophage cell line to release tumor necrosis factor-alpha and its soluble receptors in vitro.
AUTHOR: Scannell G; Waxman K; Kaml G J; Ioli G; Gatanaga T
; Yamamoto R; Granger G A
CORPORATE SOURCE: Department of Surgery, University of California, Irvine 92717.
SOURCE: JOURNAL OF SURGICAL RESEARCH, (1993 Apr) 54 (4) 281-5.
Journal code: 0376340. ISSN: 0022-4804.

PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199308
ENTRY DATE: Entered STN: 19930826
Last Updated on STN: 19970203
Entered Medline: 19930816

L16 ANSWER 12 OF 38 MEDLINE DUPLICATE 8
ACCESSION NUMBER: 94083459 MEDLINE
DOCUMENT NUMBER: 94083459 PubMed ID: 8260536
TITLE: The role of lymphotoxin in the IL-2-driven differentiation of human lymphokine-activated T-killer (T-LAK) cells in vitro.
AUTHOR: Abe Y; Van Eden M; Gatanaga M; Wang F I; Brightbill H D; Granger G A; Gatanaga T
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry, University of California, Irvine 92717.
SOURCE: LYMPHOKINE AND CYTOKINE RESEARCH, (1993 Oct) 12 (5) 279-83.
Journal code: 9107882. ISSN: 1056-5477.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199401
ENTRY DATE: Entered STN: 19940209
Last Updated on STN: 19970203
Entered Medline: 19940125

L16 ANSWER 13 OF 38 MEDLINE DUPLICATE 9
ACCESSION NUMBER: 94032768 MEDLINE
DOCUMENT NUMBER: 94032768 PubMed ID: 8218597
TITLE: Release of soluble TNF/LT receptors from a human ovarian tumor cell line (PA-1) by stimulation with cytokines in vitro.
AUTHOR: Gatanaga M; Grosen E A; Burger R A; Granger G A; Gatanaga T
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry, University of California, Irvine 92717.
SOURCE: LYMPHOKINE AND CYTOKINE RESEARCH, (1993 Aug) 12 (4) 249-53.
Journal code: 9107882. ISSN: 1056-5477.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199312
ENTRY DATE: Entered STN: 19940117
Last Updated on STN: 19970203
Entered Medline: 19931203

L16 ANSWER 14 OF 38 MEDLINE DUPLICATE 10
ACCESSION NUMBER: 94033152 MEDLINE
DOCUMENT NUMBER: 94033152 PubMed ID: 8218941
TITLE: Tumour necrosis factor (TNF) binding proteins (soluble TNF receptor forms) with possible roles in inflammation and malignancy.
AUTHOR: Olsson I; Gatanaga T; Gullberg U; Lantz M; Granger G A
CORPORATE SOURCE: Division of Hematology, Department of Medicine, Lund, Sweden.
SOURCE: EUROPEAN CYTOKINE NETWORK, (1993 May-Jun) 4 (3) 169-80.
Ref: 88
Journal code: 9100879. ISSN: 1148-5493.

PUB. COUNTRY: France
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199312
ENTRY DATE: Entered STN: 19940117
Last Updated on STN: 19940117
Entered Medline: 19931207

L16 ANSWER 15 OF 38 MEDLINE DUPLICATE 11
ACCESSION NUMBER: 93351929 MEDLINE
DOCUMENT NUMBER: 93351929 PubMed ID: 8394276
TITLE: Measurement of the soluble membrane receptors for tumor necrosis factor and lymphotoxin in the sera of patients with gynecologic malignancy.
AUTHOR: Grosen E A; Granger G A; Gatanaga M; Ininns E K; Hwang C; DiSaia P; Berman M; Manetta A; Emma D; Gatanaga T
CORPORATE SOURCE: Department of Obstetrics and Gynecology, University of California Irvine 92717-3900.
SOURCE: GYNECOLOGIC ONCOLOGY, (1993 Jul) 50 (1) 68-77.
Journal code: 0365304. ISSN: 0090-8258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199309
ENTRY DATE: Entered STN: 19931001
Last Updated on STN: 19931001
Entered Medline: 19930916

L16 ANSWER 16 OF 38 MEDLINE DUPLICATE 12
ACCESSION NUMBER: 92191877 MEDLINE
DOCUMENT NUMBER: 92191877 PubMed ID: 1312427
TITLE: Growth of the endometrial adenocarcinoma cell line AN3 CA is modulated by tumor necrosis factor and its receptor is up-regulated by estrogen in vitro.
AUTHOR: Ininns E K; Gatanaga M; Cappuccini F; Dett C A; Yamamoto R S; Granger G A; Gatanaga T
CORPORATE SOURCE: Department of Molecular Biology, University of California, Irvine 92717.
SOURCE: ENDOCRINOLOGY, (1992 Apr) 130 (4) 1852-6.
Journal code: 0375040. ISSN: 0013-7227.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 199204
ENTRY DATE: Entered STN: 19920509
Last Updated on STN: 19970203
Entered Medline: 19920422

L16 ANSWER 17 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1992:292304 BIOSIS
DOCUMENT NUMBER: BR43:4654
TITLE: MECHANISMS OF RELEASE OF SOLUBLE TNF MEMBRANE RECEPTORS BY HUMAN THP-1 CELLS IN-VITRO.
AUTHOR(S): HWANG C; GATANAGA M; GRANGER G A; GATANAGA T
CORPORATE SOURCE: DEP. MOLECULAR BIOL. AND BIOCHEM., UNIV. CALIF., IRVINE, CALIF.
SOURCE: MEETING OF THE FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY (FASEB) PART II, ANAHEIM, CALIFORNIA, USA, APRIL 5-9, 1992. FASEB (FED AM SOC EXP BIOL) J, (1992)

6 (5), A1607.
CODEN: FAJOEC. ISSN: 0892-6638
DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 18 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1992:271065 BIOSIS
DOCUMENT NUMBER: BR42:130015
TITLE: THE ROLE OF IL-4 IL-6 TNF AND LT IN THE PROLIFERATION
DIFFERENTIATION AND CYTOTOXIC EFFECTIVENESS OF HUMAN T-LAK
CELLS.
AUTHOR(S): ININNS E K; DETT C A; YAMAMOTO R S; GATANAGA M;
GRANGER G A; GATANAGA T
CORPORATE SOURCE: DEP. MOL. BIOL. AND BIOCHEM., UNIV. CALIF., IRVINE, CALIF.
92717.
SOURCE: MEETING OF THE FEDERATION OF AMERICAN SOCIETIES FOR
EXPERIMENTAL BIOLOGY (FASEB), PART 1, ANAHEIM, CALIFORNIA,
USA, APRIL 5-9, 1992. FASEB (FED AM SOC EXP BIOL) J,
(1992)

6 (4), A1336.
CODEN: FAJOEC. ISSN: 0892-6638.
DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 19 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1992:271064 BIOSIS
DOCUMENT NUMBER: BR42:130014
TITLE: LYMPHOTOXIN LT SYSTEM OF HUMAN LYMPHOKINE ACTIVATED T
KILLER T-LAK CELLS STUDIES ON MEMBRANE ASSOCIATED AND
SOLUBLE SECRETED LYMPHOTOXIN.
AUTHOR(S): ABE Y; GRANGER G A; GATANAGA T
CORPORATE SOURCE: DEP. MOL. BIOL. AND BIOCHEM., UNIV. CALIF., IRVINE, CALIF.
92717.
SOURCE: MEETING OF THE FEDERATION OF AMERICAN SOCIETIES FOR
EXPERIMENTAL BIOLOGY (FASEB), PART 1, ANAHEIM, CALIFORNIA,
USA, APRIL 5-9, 1992. FASEB (FED AM SOC EXP BIOL) J,
(1992)

6 (4), A1336.
CODEN: FAJOEC. ISSN: 0892-6638.

DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 20 OF 38 MEDLINE
ACCESSION NUMBER: 93042824 MEDLINE
DOCUMENT NUMBER: 93042824 PubMed ID: 1421001
TITLE: The autocrine role of tumor necrosis factor in the
proliferation and functional differentiation of human
lymphokine-activated T killer cells (T-LAK) in vitro.
AUTHOR: Innins E K; Gatanaga M; Van Eden M; Knudsen K L;
Granger G A; Gatanaga T
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry,
University of California, Irvine 92717.
SOURCE: CYTOKINE, (1992 Sep) 4 (5) 391-6.
Journal code: 9005353. ISSN: 1043-4666.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199212
ENTRY DATE: Entered STN: 19930122
Last Updated on STN: 19930122
Entered Medline: 19921204

L16 ANSWER 21 OF 38 MEDLINE

DUPLICATE 13

ACCESSION NUMBER: 93120302 MEDLINE
DOCUMENT NUMBER: 93120302 PubMed ID: 1335764
TITLE: Blocking factors (soluble membrane receptors) for tumor necrosis factor and lymphotoxin detected in ascites and released in short-term cultures obtained from ascites and solid tumors in women with gynecologic malignancy.
AUTHOR: Grosen E A; Yamamoto R S; Ioli G; Ininns E K; Gatanaga M; Gatanaga T; DiSaia P J; Berman M; Manetta A; Granger G A
CORPORATE SOURCE: Department of Obstetrics and Gynecology, University of California Irvine 92717-3900.
SOURCE: LYMPHOKINE AND CYTOKINE RESEARCH, (1992 Dec) 11 (6)
347-53.
JOURNAL CODE: 9107882. ISSN: 1056-5477.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199302
ENTRY DATE: Entered STN: 19930226
Last Updated on STN: 19970203
Entered Medline: 19930211

L16 ANSWER 22 OF 38 MEDLINE

DUPLICATE 14

ACCESSION NUMBER: 93104306 MEDLINE
DOCUMENT NUMBER: 93104306 PubMed ID: 1467364
TITLE: Transforming growth factor-beta 1 down-regulates expression of membrane-associated lymphotoxin and secretion of soluble lymphotoxin by human lymphokine-activated killer T cells in vitro.
AUTHOR: Abe Y; Miyake M; Osuka Y; Kimura S; Granger G A; Gatanaga T
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry, University of California, Irvine 92717.
SOURCE: LYMPHOKINE AND CYTOKINE RESEARCH, (1992 Oct) 11 (5)
245-51.
JOURNAL CODE: 9107882. ISSN: 1056-5477.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199301
ENTRY DATE: Entered STN: 19930212
Last Updated on STN: 19930212
Entered Medline: 19930125

L16 ANSWER 23 OF 38 MEDLINE

DUPLICATE 15

ACCESSION NUMBER: 92363282 MEDLINE
DOCUMENT NUMBER: 92363282 PubMed ID: 1500017
TITLE: Trafficking of syngeneic murine lymphokine activated killer T cells following intraperitoneal administration in normal and tumor bearing mice.
AUTHOR: Cappuccini F; Lucci J A 3rd; Dett C A; Gatanaga M; Ininns E; Gatanaga T; Yamamoto R S; Manetta A; DiSaia P J; Granger G A
CORPORATE SOURCE: Department of Obstetrics and Gynecology, University of California, Irvine 92717.
SOURCE: GYNECOLOGIC ONCOLOGY, (1992 Aug) 46 (2) 163-9.
JOURNAL CODE: 0365304. ISSN: 0090-8258.
PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199209
ENTRY DATE: Entered STN: 19920925
Last Updated on STN: 19970203
Entered Medline: 19920917

L16 ANSWER 24 OF 38 MEDLINE DUPLICATE 16
ACCESSION NUMBER: 92256569 MEDLINE
DOCUMENT NUMBER: 92256569 PubMed ID: 1581418
TITLE: Studies of membrane-associated and soluble (secreted)
lymphotoxin in human lymphokine-activated T-killer cells
in
vitro.
AUTHOR: Abe Y; Horiuchi A; Osuka Y; Kimura S; **Granger G A**
; **Gatanaga T**
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry,
University of California-Irvine 92717.
SOURCE: LYMPHOKINE AND CYTOKINE RESEARCH, (1992 Apr) 11 (2)
115-21.
Journal code: 9107882. ISSN: 1056-5477.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199206
ENTRY DATE: Entered STN: 19920626
Last Updated on STN: 19920626
Entered Medline: 19920617

L16 ANSWER 25 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS
INC.DUPLICATE
17
ACCESSION NUMBER: 1992:270227 BIOSIS
DOCUMENT NUMBER: BR42:129177
TITLE: LYMPHOTOXIN MACROPHAGE TOXINS TUMOR NECROSIS FACTOR AND
CACHECTIN.
AUTHOR(S): **GRANGER G A; YAMAMOTO R; GATANAGA T;**
CAPPUCINI F; JEFFES E W B; JAKOWATZ J
CORPORATE SOURCE: DEP. MOL. BIOL. BIOCHEM., UNIV. CALIF., MEMORIAL CANCER
INST., 447 STEINHAUS HALL, IRVINE, CALIF. 92717, USA.
SOURCE: OSAWA, T. AND B. BONAVIDA (ED.). TUMOR NECROSIS FACTOR:
STRUCTURE-FUNCTION RELATIONSHIP AND CLINICAL APPLICATION;
3RD INTERNATIONAL CONFERENCE ON TUMOR NECROSIS FACTOR AND
RELATED CYTOKINES, MAKUHARI, JAPAN, NOVEMBER 21-25, 1990.
IX+291P. S. KARGER AG: BASEL, SWITZERLAND; NEW YORK, NEW
YORK, USA. ILLUS, (1992) 0 (0), 25-33.
ISBN: 3-8055-5458-3.

DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 26 OF 38 MEDLINE DUPLICATE 18
ACCESSION NUMBER: 91132017 MEDLINE
DOCUMENT NUMBER: 91132017 PubMed ID: 1847164
TITLE: Enhancement of lymphokine-activated T killer cell tumor
necrosis factor receptor mRNA transcription, tumor
necrosis
factor receptor membrane expression, and tumor necrosis
factor/lymphotoxin release by IL-1 beta, IL-4, and IL-6 in
vitro.
AUTHOR: Dett C A; Gatanaga M; Ininns E K; Cappuccini F; Yamamoto R
S; **Granger G A; Gatanaga T**
CORPORATE SOURCE: Department of Molecular Biology & Biochemistry, University
of California Irvine 92717.

SOURCE: JOURNAL OF IMMUNOLOGY, (1991 May 1) 146 (5) 1522-6.
PUB. COUNTRY: Journal code: 2985117R. ISSN: 0021-1767.
DOCUMENT TYPE: United States
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)
FILE SEGMENT: English
ENTRY MONTH: Abridged Index Medicus Journals; Priority Journals
199103
ENTRY DATE: Entered STN: 19910405
Last Updated on STN: 19910405
Entered Medline: 19910319

L16 ANSWER 27 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1992:22314 BIOSIS
DOCUMENT NUMBER: BR42:10014
TITLE: A 20AA SYNTHETIC PEPTIDE OF A REGION FROM THE 55 KD HUMAN
TNF RECEPTOR INHIBITS CYTOLYTIC AND BINDING ACTIVITIES OF
RECOMBINANT TNF IN-VITRO.
AUTHOR(S): HWANG C; GATANAGA M; ININNS E K; YAMAMOTO R S; GRANGER
G A; GATANAGA T
CORPORATE SOURCE: DEP. MOL. BIOL. BIOCHEM., UNIV. CALIF., IRVINE, CALIF.
SOURCE: THIRD INTERNATIONAL WORKSHOP ON CYTOKINES, STRESA, ITALY,
NOVEMBER 10-14, 1991. CYTOKINE, (1991) 3 (5), 475.
CODEN: CYTIE9. ISSN: 1043-4666.
DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 28 OF 38 MEDLINE DUPLICATE 19
ACCESSION NUMBER: 91355387 MEDLINE
DOCUMENT NUMBER: 91355387 PubMed ID: 1653048
TITLE: Identification of tumor necrosis factor and lymphotoxin
blocking factor(s) in the ascites of patients with
advanced
and recurrent ovarian cancer.
AUTHOR: Cappuccini F; Yamamoto R S; DiSaia P J; Grosen E A;
Gatanaga M; Lucci J A; Ininns E K; Gatanaga T;
Granger G A
CORPORATE SOURCE: Department of Obstetrics and Gynecology, University of
California, Irvine 92717.
SOURCE: LYMPHOKINE AND CYTOKINE RESEARCH, (1991 Jun) 10 (3) 225-9.
Journal code: 9107882. ISSN: 1056-5477.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199110
ENTRY DATE: Entered STN: 19911027
Last Updated on STN: 19980206
Entered Medline: 19911007

L16 ANSWER 29 OF 38 MEDLINE DUPLICATE 20
ACCESSION NUMBER: 92052300 MEDLINE
DOCUMENT NUMBER: 92052300 PubMed ID: 1682934
TITLE: A 20 amino acid synthetic peptide of a region from the 55
kDa human TNF receptor inhibits cytolytic and binding
activities of recombinant human tumour necrosis factor in
vitro.
AUTHOR: Hwang C D; Gatanaga M; Innins E K; Yamamoto R S;
Granger G A; Gatanaga T
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry,
University of California, Irvine 92717.
SOURCE: PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON. SERIES B:
BIOLOGICAL SCIENCES, (1991 Aug 22) 245 (1313) 115-9.
Journal code: 7505889. ISSN: 0962-8452.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199112
ENTRY DATE: Entered STN: 19920124
Last Updated on STN: 19980206
Entered Medline: 19911210

L16 ANSWER 30 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1991:539696 BIOSIS
DOCUMENT NUMBER: BR41:129431
TITLE: THE AUTOCRINE ROLE OF TUMOR NECROSIS FACTOR AND LYMPHOTOXIN
IN THE PROLIFERATION AND DIFFERENTIATION OF HUMAN LYMPHOKINE ACTIVATED T KILLER CELLS T-LAK IN-VITRO.
ININNS E K; GATANAGA M; YAMAMOTO R S; GRANGER G A ; GATANAGA T
CORPORATE SOURCE: DEP. MOL. BIOL. BIOCHEM., UNIV. CALIFORNIA, IRVINE, CALIF. 92717.
SOURCE: TWENTY-EIGHTH NATIONAL MEETING OF THE SOCIETY FOR LEUKOCYTE
BIOLOGY AND THE TWENTY-FIRST LEUKOCYTE CULTURE CONFERENCE, ASPEN, COLORADO, USA, SEPTEMBER 28-OCTOBER 1, 1991. J LEUKOCYTE BIOL, (1991) 0 (SUPPL 2), 99-100.
CODEN: JLBIE7. ISSN: 0741-5400.

DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 31 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1991:539679 BIOSIS
DOCUMENT NUMBER: BR41:129414
TITLE: A 20AA SYNTHETIC PEPTIDE OF A REGION FROM THE 55 KD HUMAN TNF RECEPTOR INHIBITS CYTOLYTIC AND BINDING ACTIVITIES OF RECOMBINANT HUMAN TNF IN-VITRO.
AUTHOR(S): HWANG C; GATANAGA M; ININNS E K; YAMAMOTO R S; GRANGER G A; GATANAGA T
CORPORATE SOURCE: BIOCHEM. MOLECULAR BIOL. AND BIOCHEM., UNIV. CALIF., IRVINE, CALIF.
SOURCE: TWENTY-EIGHTH NATIONAL MEETING OF THE SOCIETY FOR LEUKOCYTE
BIOLOGY AND THE TWENTY-FIRST LEUKOCYTE CULTURE CONFERENCE, ASPEN, COLORADO, USA, SEPTEMBER 28-OCTOBER 1, 1991. J LEUKOCYTE BIOL, (1991) 0 (SUPPL 2), 95.
CODEN: JLBIE7. ISSN: 0741-5400.

DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 32 OF 38 MEDLINE DUPLICATE 21
ACCESSION NUMBER: 92005726 MEDLINE
DOCUMENT NUMBER: 92005726 PubMed ID: 1655285
TITLE: The regulation of TNF receptor mRNA synthesis, membrane expression, and release by PMA- and LPS-stimulated human monocytic THP-1 cells in vitro.
AUTHOR: Gatanaga T; Hwang C D; Gatanaga M; Cappuccini F; Yamamoto R S; Granger G A
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry, University of California, Irvine 92717.
SOURCE: CELLULAR IMMUNOLOGY, (1991 Nov) 138 (1) 1-10.
Journal code: 1246405. ISSN: 0008-8749.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199111
ENTRY DATE: Entered STN: 19920124

L16 ANSWER 33 OF 38 MEDLINE DUPLICATE 22
ACCESSION NUMBER: 91062364 MEDLINE
DOCUMENT NUMBER: 91062364 PubMed ID: 2174164
TITLE: Purification and characterization of an inhibitor (soluble tumor necrosis factor receptor) for tumor necrosis factor and lymphotoxin obtained from the serum ultrafiltrates of human cancer patients.
AUTHOR: Gatanaga T; Hwang C D; Kohr W; Cappuccini F; Lucci J A 3rd; Jeffes E W; Lentz R; Tomich J; Yamamoto R
S;
Granger G A
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry, University of California, Irvine 92717.
SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1990 Nov) 87 (22) 8781-4. Journal code: 7505876. ISSN: 0027-8424.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199101
ENTRY DATE: Entered STN: 19910222
Last Updated on STN: 19910222
Entered Medline: 19910110

L16 ANSWER 34 OF 38 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 90149725 EMBASE
DOCUMENT NUMBER: 1990149725
TITLE: Molecular cloning and expression of a receptor for human tumor necrosis factor.
AUTHOR: Schall T.J.; Lewis M.; Koller K.J.; Lee A.; Rice G.C.; Wong G.H.W.; Gatanaga T.; Granger G.A.; Lentz R.; Raab H.; Kohr W.J.; Goeddel D.V.
CORPORATE SOURCE: Department of Molecular Biology, Genentech Inc., 460 Pt. San Bruno Boulevard, San Francisco, CA 94080, United States
SOURCE: Cell, (1990) 61/2 (631-370). ISSN: 0092-8674 CODEN: CELLS5
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English

L16 ANSWER 35 OF 38 MEDLINE DUPLICATE 23
ACCESSION NUMBER: 90235285 MEDLINE
DOCUMENT NUMBER: 90235285 PubMed ID: 2158863
TITLE: Molecular cloning and expression of a receptor for human tumor necrosis factor.
AUTHOR: Schall T J; Lewis M; Koller K J; Lee A; Rice G C; Wong G H;
Gatanaga T; Granger G A; Lentz R; Raab H;
+
CORPORATE SOURCE: Department of Molecular Biology, Genentech, Inc., South San Francisco, California 94080.
SOURCE: CELL, (1990 Apr 20) 61 (2) 361-70. Journal code: 0413066. ISSN: 0092-8674.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals

OTHER SOURCE: GENBANK-M33294
ENTRY MONTH: 199006
ENTRY DATE: Entered STN: 19900706
Last Updated on STN: 19970203
Entered Medline: 19900601

L16 ANSWER 36 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1991:152992 BIOSIS
DOCUMENT NUMBER: BR40:72597
TITLE: PURIFICATION AND CHARACTERIZATION OF TNF-LT BLOCKING
FACTORS IN THE SERUM AND ULTRAFILTRATES OF HUMAN CANCER
PATIENTS.
AUTHOR(S): GATANAGA T; HWANG C; TOMICH J; LENTZ R; KORR B;
GRANGER G A
CORPORATE SOURCE: DEP. MOLECULAR BIOL. AND BIOCHEM., UNIV. CALIF. IRVINE,
IRVINE, CALIF. 92717, USA.
SOURCE: 15TH INTERNATIONAL CANCER CONGRESS, HAMBURG, GERMANY,
AUGUST 16-22, 1990. J CANCER RES CLIN ONCOL, (1990) 116
(SUPPL PART 1), 277.
CODEN: JCROD7. ISSN: 0171-5216.
DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 37 OF 38 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1990:483174 BIOSIS
DOCUMENT NUMBER: BR39:107195
TITLE: ALTERATION OF PLASMA COMPONENTS FOR IMMUNE SYSTEM
ACTIVATION.
AUTHOR(S): LENTZ M R; GRANGER G A; TOMICH J; TUCKER E;
GATANAGA T; HUBBARD W
CORPORATE SOURCE: JOHN F. KENNEDY MEMORIAL HOSP., INDIO, CALIF. 92201.
SOURCE: SYMPOSIUM ON TISSUE ENGINEERING HELD AT THE 19TH ANNUAL
UCLA (UNIVERSITY OF CALIFORNIA-LOS ANGELES) SYMPOSIA ON
MOLECULAR AND CELLULAR BIOLOGY, KEYSTONE, COLORADO, USA,
APRIL 6-12, 1990. J CELL BIOCHEM SUPPL, (1990) 0 (14 PART
E), 241.
CODEN: JCBSD7.
DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L16 ANSWER 38 OF 38 MEDLINE DUPLICATE 24
ACCESSION NUMBER: 90250966 MEDLINE
DOCUMENT NUMBER: 90250966 PubMed ID: 2187118
TITLE: Identification of TNF-LT blocking factor(s) in the serum
and ultrafiltrates of human cancer patients.
AUTHOR: Gatanaga T; Lentz R; Masunaka I; Tomich J; Jeffes
E W 3rd; Baird M; Granger G A
CORPORATE SOURCE: Department of Molecular Biology and Biochemistry,
University of California, Irvine.
SOURCE: LYMPHOKINE RESEARCH, (1990 Summer) 9 (2) 225-9.
Journal code: 8308208. ISSN: 0277-6766.
PUB. COUNTRY: United States
DOCUMENT TYPE: (CLINICAL TRIAL)
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)
FILE SEGMENT: English
ENTRY MONTH: Priority Journals
ENTRY DATE: 199006
Entered STN: 19900720
Last Updated on STN: 19900720
Entered Medline: 19900619

=> log y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

91.73

TOTAL

SESSION

91.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

-1.24

TOTAL

SESSION

-1.24

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 10:35:59 ON 16 SEP 2002

09752639 Results

SEQ ID NO: 9

SUMMARIES

| Result | Query | | | | | Description |
|--------|-------|--------|-------|--------|-------|-------------|
| | No. | Score | Match | Length | DB ID | |
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| | 2 | 1065.2 | 89.7 | 1848 | 89 | AK023722 |
| | 3 | 1063.6 | 89.6 | 2538 | 88 | AF110322 |
| | 4 | 1062 | 89.5 | 2262 | 89 | AK000260 |
| c | 5 | 1004.4 | 84.6 | 70452 | 93 | HSJ854E16 |
| | 6 | 616.6 | 51.9 | 1865 | 94 | AF177476 |
| | 7 | 610.8 | 51.5 | 1892 | 94 | BC002318 |
| | 8 | 374 | 31.5 | 146173 | 65 | AC018521 |
| | 9 | 372.4 | 31.4 | 135505 | 85 | AC004477 |
| c | 10 | 330.6 | 27.9 | 405 | 54 | G22793 |
| c | 11 | 106.4 | 9.0 | 127 | 54 | G59781 |
| c | 12 | 70.2 | 5.9 | 22673 | 78 | AF322453 |
| | 13 | 69.8 | 5.9 | 4385 | 2 | BSPD3 |
| c | 14 | 69.6 | 5.9 | 51381 | 78 | AF322456 |
| c | 15 | 69 | 5.8 | 2487 | 3 | HMY16851 |
| c | 16 | 69 | 5.8 | 4518 | 56 | XXU37573 |
| | 17 | 69 | 5.8 | 11866 | 3 | MTH243656 |
| c | 18 | 69 | 5.8 | 13404 | 78 | AF322452 |
| c | 19 | 68.8 | 5.8 | 27810 | 65 | AC018272 |
| | 20 | 68.8 | 5.8 | 89791 | 4 | AC005268 |
| | 21 | 68.8 | 5.8 | 164035 | 4 | AC007888 |
| c | 22 | 68.8 | 5.8 | 305020 | 4 | AE003452 |
| | 23 | 65 | 5.5 | 582 | 8 | LLACMSAT2 |
| | 24 | 64.2 | 5.4 | 211126 | 62 | AC011767 |
| | 25 | 64 | 5.4 | 397 | 8 | LLACMSAT1 |
| | 26 | 64 | 5.4 | 409 | 7 | LLY16299 |
| | 27 | 64 | 5.4 | 501 | 8 | LLTGMSAT3 |
| | 28 | 64 | 5.4 | 513 | 8 | LLATTMSAT |
| c | 29 | 64 | 5.4 | 1007 | 10 | AX067477 |
| | 30 | 62.6 | 5.3 | 3001 | 14 | BVRNAEF2 |
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| | 32 | 62.4 | 5.3 | 541 | 8 | LLCAMSAT1 |
| | 33 | 61.6 | 5.2 | 2015 | 94 | MMU39066 |
| | 34 | 61.6 | 5.2 | 2370 | 97 | HSU48696 |
| | 35 | 61.6 | 5.2 | 2873 | 8 | AF045432 |
| | 36 | 61.6 | 5.2 | 3109 | 9 | AX009614 |
| | 37 | 61.6 | 5.2 | 3109 | 10 | E58348 |
| | 38 | 61.6 | 5.2 | 3700 | 9 | AX009612 |
| | 39 | 61.6 | 5.2 | 3701 | 10 | E58347 |
| | 40 | 61.4 | 5.2 | 239658 | 76 | AC079818 |
| | 41 | 60.6 | 5.1 | 1565 | 8 | CCA243486 |
| | 42 | 60.2 | 5.1 | 2793 | 9 | AR009990 |
| | 43 | 60.2 | 5.1 | 2793 | 10 | I95876 |
| | 44 | 60 | 5.1 | 652 | 8 | LLCAMSAT2 |
| | 45 | 60 | 5.1 | 2322 | 97 | HSU48697 |

RESULT 9

AC004477

LOCUS AC004477 135505 bp DNA PRI 29-OCT-1998
 DEFINITION Homo sapiens chromosome 17, clone HRPC890E16, complete sequence.
 ACCESSION AC004477
 VERSION AC004477.1 GI:3688107
 KEYWORDS HTG.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 135505)
 AUTHORS Birren,B., Linton,L., Nusbaum,C. and Lander,E.
 TITLE Homo sapiens chromosome 17, clone HRPC890E16

JOURNAL Unpublished
REFERENCE 2 (bases 1 to 135505)
AUTHORS Birren,B., Fasman,K., McKernan,K., Nusbaum,C., Richardson,P., Lander,E., Allen,N., Baker,J., Baldwin,J., Barna,N., Beckerly,R., Benn,J., Boatman,C., Boutwell,C., Brown,A., Byrne,S., Cantu,C., Castle,A., Cerny,J., Cooke,P., Daly,M.J., Depayre,E., Devon,K., Dewar,K., Donelan,L., DuRette,B., Etemadi,S., Ferreira,P., FitzHugh,W., Forrest,C., Funke,R., Gage,D., Gardyna,S., Gensheimer,S., Geraigery,K., Gilmartin,T., Grant,G., Gray,D., Hagos,B., Harris,K., Horton,L., Howland,J.C., Hui,L., Jacotot,L., Kann,L., Linton,L., Macdonald,P., Marquis,N., McEwan,P., McGurk,A., Meldrim,J., Molla,M., Morris,W., Morrow,J., Nachman,A., Nahf,R., Naylor,J., O'Connor,T., Pavlin,B., Peterson,K., Riley,R., Roberts,D., Rollins,G., Rossello,R., Roy,A., Shyam,R., Stange-Thomann,N., Stilwell,J., Stone,C., Strickland,C., Subramanian,A., Sydney,K., Tang,L., Vassiliev,H., Vo,A., Wagner,A., Wang,B., Wheeler,J., Wu,Y., Ye,W.J., Zhao,J. and Zody,M.
TITLE Direct Submission
JOURNAL Submitted (26-MAR-1998) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
REFERENCE 3 (bases 1 to 135505)
AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M., Baker,J., Baldwin,J., Barna,N., Beckerly,R., Benn,J., Boutwell,C., Brown,A., Castle,A., Cerny,J., Colangelo,M., Collins,S., Collymore,A., Cooke,P., Corliss,D., Depayre,E., Devon,K., Dewar,K., Donelan,L., Ferreira,P., FitzHugh,W., Forrest,C., Funke,R., Gage,D., Gardyna,S., Geraigery,K., Grant,G., Hagos,B., Heaford,A., Herena,L., Horton,L., Howland,J.C., Jacotot,L., Jones,C., Kann,L., Karatas,A., Lehoczky,J., Macdonald,P., Marquis,N., McEwan,P., McGurk,A., McKernan,K., Meldrim,J., Molla,M., Morris,W., Morrow,J., Mychaleckyj,J., Nahf,R., Naylor,J., Niloff,M., O'Connor,T., O'Donnell,P., Pavlin,B., Peterson,K., Riley,R., Roberts,D., Roy,A., Severy,P., Stange-Thomann,N., Stilwell,J., Stojanovic,N., Stone,C., Subramanian,A., Tesfaye,S., Tichovolsky,N., Torruella-Miller,I., Vassiliev,H., Vo,A., Wagner,A., Wheeler,J., Wu,Y., Wyman,D., Ye,W.J., Zhao,J. and Zody,M.
TITLE Direct Submission
JOURNAL Submitted (02-OCT-1998) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
REFERENCE 4 (bases 1 to 135505)
AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M., Baker,J., Baldwin,J., Barna,N., Beckerly,R., Benn,J., Boutwell,C., Brown,A., Castle,A., Cerny,J., Colangelo,M., Collins,S., Collymore,A., Cooke,P., Corliss,D., Depayre,E., Devon,K., Dewar,K., Donelan,L., Ferreira,P., FitzHugh,W., Forrest,C., Funke,R., Gage,D., Gardyna,S., Geraigery,K., Grant,G., Hagos,B., Heaford,A., Herena,L., Horton,L., Howland,J.C., Jacotot,L., Jones,C., Kann,L., Karatas,A., Lehoczky,J., Macdonald,P., Marquis,N., McEwan,P., McGurk,A., McKernan,K., Meldrim,J., Molla,M., Morris,W., Morrow,J., Mychaleckyj,J., Nahf,R., Naylor,J., Niloff,M., O'Connor,T., O'Donnell,P., Pavlin,B., Peterson,K., Riley,R., Roberts,D., Roy,A., Severy,P., Stange-Thomann,N., Stilwell,J., Stojanovic,N., Stone,C., Subramanian,A., Tesfaye,S., Tichovolsky,N., Torruella-Miller,I., Vassiliev,H., Vo,A., Wagner,A., Wheeler,J., Wu,Y., Wyman,D., Ye,W.J., Zhao,J. and Zody,M.
TITLE Direct Submission
JOURNAL Submitted (29-OCT-1998) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
COMMENT On Oct 2, 1998 this sequence version replaced gi:3687291.
All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>.
FEATURES Location/Qualifiers
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/clone="HRPC890E16"
/clone_lib="Peter de Jong/ human PAC library"
/map="17"
/chromosome="17"
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repeat_region /rpt_family="AluSg" 4777..5071
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repeat_region /rpt_family="MIR" complement(5771..6242)
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repeat_region /rpt_family="LTR16A" complement(6716..7004)
repeat_region /rpt_family="AluSx" 7051..7381
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repeat_region /rpt_family="AluSp"
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repeat_region /rpt_family="MIR"
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Query Match 31.4%; Score 372.4; DB 85; Length 135505;
 Best Local Similarity 81.9%; Pred. No. 9.4e-80;
 Matches 488; Conservative 0; Mismatches 6; Indels 102; Gaps 1;

| | | | |
|----|-------|---|-------|
| Qy | 627 | GCCTCACCAAGGTATGTGGACCGAGTGACTGAATTCCCTCAGCAAAAGCTGAAGCAGTC | 686 |
| | | | |
| Db | 25275 | GCCCCGCACAGGTATGTGGACCGAGTGACTGAATTCCCTCAGCAAAAGCTGAAGCAGTC | 25334 |
| Qy | 687 | CAGCTGCTGGCTTGAAAGAAAGAGCTGATGGTGAGCAGCAGCAGGAGGCACTTGAGGAG | 746 |
| | | | |
| Db | 25335 | CAGCTGCTGGCTTGAAAGAAAGAGCTGATGGTGAGCAGCAGCAGGAGGCACTTGAGGAG | 25394 |
| Qy | 747 | CAGGCGGCTCTGGAGCCTAACGCTGGACCTGCTACTGGAGAAGACCAAGGAGCTGCAGAAG | 806 |
| | | | |
| Db | 25395 | CAGGCGGCTCTGGAGCCTAACGCTGGACCTGCTACTGGAGAAGACCAAGGAGCTGCAGAAG | 25454 |
| Qy | 807 | CT----- | 808 |
| | | | |
| Db | 25455 | CTGGTGAGATGGGAAAGGGAGGCCTGCCAGTGGGAGGACTCCAGTCTGTGCAAATGAG | 25514 |
| Qy | 809 | -----GATTGAAGCTGACATC | 824 |
| | | | |
| Db | 25515 | GCCCTGAGCACCCCTGCTCTGCCACTTGGTATCACTCTTCAGATTGAAGCTGACATC | 25574 |

Qy 825 TCCAAGAGGTACAGCGGGCCCTGTGAACCTGATGGAACCTCTGTGACACCCCTCCG 884
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 Db 25575 TCCAAGAGGTACAGCGGGCCCTGTGAACCTGATGGAACCTCTGTGACACCCCTCCG 25634
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 Qy 885 TGTTCTGCCTGCCATCTTCTCCGTTGGATGAAGATGATAGCCAGGGCTGTTGTT 944
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 Db 25635 TGTTCTGCCTGCCATCTTCTCCGTTGGATGAAGATGATAGCCAGGGCTGTTGTT 25694
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 Qy 945 TTGGGGCCCTCAAGGCAAAAGACCAGGCTGACTGGAAGATGAAAGGCCACAGGAAGGAA 1004
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 Qy 1005 GCGGCACCTGATGGTGTCTGGCACTCTCCATGTTCTCTACAAGAAGCTGTGGTATTG 1064
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RESULT 10
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 DEFINITION human STS WI-11758, sequence tagged site.
 ACCESSION G22793
 VERSION G22793.1 GI:1343119
 KEYWORDS STS; STS sequence; primer; sequence tagged site.
 SOURCE human STSs derived from sequences in dbEST and the Unigene collection.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 405)
 AUTHORS Hudson, T.
 TITLE Whitehead Institute/MIT Center for Genome Research; Physically Mapped STSs
 JOURNAL Unpublished (1995)
 COMMENT
 Contact: Thomas Hudson
 Whitehead Institute/MIT Center for Genome Research
 Whitehead Institute for Biomedical Research
 9 Cambridge Center, Cambridge MA 02142 USA
 Tel: 617 252 1900
 Fax: 617 252 1902
 Email: thudson@genome.wi.mit.edu
 Primer A: TTTTCCTCTTTATTAAGTCGC
 Primer B: TGATGGTGATCTGGCACTC
 STS size: 127
 PCR Profile:
 Presoak:
 Denaturation:
 Annealing: 56 degrees C
 Polymerization:
 PCR Cycles: 35
 Thermal Cycler:
 Protocol:
 Template: 10 ng
 Primer: each 5 pM
 dNTPs: each 4 nM
 Taq Polymerase: 0.025 units/ul
 Total Vol: 20 ul
 Buffer:
 MgCl2: 1.5 mM
 KCl: 50 mM
 Tris-HCL: 10 mM
 pH: 9.3

Derived from dbEST (genbank accession R12670).

| FEATURES | Location/Qualifiers |
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| STS | 14. .140 |
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| primer_bind | complement(121. .140) |
| BASE COUNT | 92 a 107 c 100 g 100 t 6 others |
| ORIGIN | |
| <p>Query Match 27.9%; Score 330.6; DB 54; Length 405; Best Local Similarity 96.7%; Pred. No. 1.8e-69; Matches 356; Conservative 0; Mismatches 9; Indels 3; Gaps 2;</p> | |
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| Db | 400 CTGGAGCTAAGCTGGACCCCTGCCTACTGGANAAGCCCAAGGAGCTGCAGAAGCTGANTG 341 |
| Qy | 814 AAGCTGA-CATCTCCAAGAGGTACAGCGGGCGCCCTGTGAACCTGATGGGAACCTCTCTG 872 |
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| Qy | 933 AGGGCTGTTGTTGGGCCCTCAAGGCAAAAGACCAGGCTGACTGGAAAGATGGAAAGC 992 |
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| Qy | 993 CACAGGAAGGAAGCGGCACCTGATGGTATCTGGCACTCTCCATGTTCTCTACAAGAAG 1052 |
| Db | 160 CACAGGAAGGAAGCGGCACCTGATGGTATCTGGCACTCTCCATGTTCTCTACAAGAAG 101 |
| Qy | 1053 CTGTGGTGATTGGCCCTGTGGTCTATCAGGGAAACCAACAGATTCTCCTTAGTTAGT 1112 |
| Db | 100 CTGTGGTGATTGGCCCTGTGGTCTATCAGGGAAACCAACAGATTCTCCTTAGTTAGT 41 |
| Qy | 1113 ATAGCGCA 1120 |
| Db | 40 ATAGCGGA 33 |

SUMMARIES

| Result | Query | | | | | | Description |
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| | 2 | 1065.2 | 89.7 | 2092 | 22 | AAF33134 | Human secreted pro |
| | 3 | 692.2 | 58.3 | 3693 | 21 | AAZ33335 | Human secreted pro |
| | 4 | 106 | 8.9 | 127 | 19 | AAX10455 | Human biallelic po |
| | 5 | 99.4 | 8.4 | 137 | 16 | AAT19732 | Human gene signatu |
| | 6 | 70.2 | 5.9 | 3306 | 21 | AAZ38862 | Human Jurkat cell |
| | 7 | 70 | 5.9 | 260 | 21 | AAA45838 | Human secreted exp |
| | 8 | 69 | 5.8 | 1777 | 19 | AAV71214 | DNA encoding ester |
| | 9 | 69 | 5.8 | 1924 | 19 | AAV71216 | DNA encoding ester |
| | 10 | 69 | 5.8 | 2315 | 19 | AAV71206 | DNA encoding ester |
| c | 11 | 69 | 5.8 | 4518 | 19 | AAV33626 | Plasmid pBK-CMV DN |
| | 12 | 67.4 | 5.7 | 451 | 21 | AAC93441 | Human secreted pro |
| c | 13 | 66.8 | 5.6 | 477 | 18 | AAT69215 | Lawsonia intracell |
| c | 14 | 66 | 5.6 | 1555 | 21 | AAA79581 | Pinus radiata cell |
| c | 15 | 64 | 5.4 | 1007 | 22 | AAF25818 | C. glutamicum phos |
| | 16 | 63.4 | 5.3 | 854 | 21 | AAA26327 | Human secreted pro |
| | 17 | 62.4 | 5.3 | 629 | 21 | AAC98318 | Human colon cancer |
| | 18 | 62.4 | 5.3 | 4382 | 19 | AAV59104 | Zebrafish differen |
| | 19 | 61.6 | 5.2 | 597 | 21 | AAC79854 | Human secreted pro |
| | 20 | 61.6 | 5.2 | 1337 | 21 | AAC60042 | Human secreted pro |
| | 21 | 61.6 | 5.2 | 1337 | 22 | AAF26551 | DNA encoding human |

| | | | | | | | |
|----|------|------|------|------|----------|--------------------|--------------------|
| 22 | 61.6 | 5.2 | 2109 | 22 | AAD02809 | HBXDJ03 cDNA clone | |
| 23 | 61.6 | 5.2 | 3109 | 21 | AAZ24477 | H. virescens acety | |
| 24 | 61.6 | 5.2 | 3700 | 21 | AAZ24476 | H. virescens acety | |
| 25 | 61.6 | 5.2 | 4595 | 19 | AAV59106 | Zebrafish differen | |
| 26 | 61.4 | 5.2 | 770 | 21 | AAA26389 | Human secreted pro | |
| 27 | 61.4 | 5.2 | 1020 | 20 | AAX35889 | cDNA encoding a pr | |
| 28 | 60.8 | 5.1 | 1300 | 21 | AAC79850 | Human secreted pro | |
| C | 29 | 60.6 | 5.1 | 1048 | 20 | AAX35890 | cDNA encoding a pr |
| | 30 | 60.4 | 5.1 | 423 | 21 | AAC56254 | Pinus radiata tran |
| | 31 | 60.2 | 5.1 | 386 | 21 | AAC57162 | Pinus radiata tran |
| | 32 | 60.2 | 5.1 | 412 | 21 | AAC57164 | Pinus radiata tran |
| | 33 | 60.2 | 5.1 | 2744 | 16 | AAQ98470 | MiSP1-containing p |
| | 34 | 59.8 | 5.0 | 5762 | 20 | AAZ23938 | T. versicolor lacc |
| | 35 | 59.6 | 5.0 | 2730 | 20 | AAX84696 | Human metastatic m |
| | 36 | 59.4 | 5.0 | 859 | 21 | AAC79869 | Human secreted pro |
| | 37 | 59.4 | 5.0 | 2004 | 18 | AAT85356 | Nephila clavipes s |
| | 38 | 59 | 5.0 | 6139 | 21 | AAZ40023 | Interleukin-12 fus |
| C | 39 | 58.4 | 4.9 | 247 | 18 | AAT69330 | Murine metastatic |
| | 40 | 58.4 | 4.9 | 855 | 18 | AAT69210 | Lawsonia intracell |
| | 41 | 58.2 | 4.9 | 568 | 20 | AAZ27236 | Human secreted pro |
| | 42 | 58.2 | 4.9 | 1160 | 21 | AAA79694 | Pinus radiata cell |
| | 43 | 58.2 | 4.9 | 5954 | 19 | AAV59105 | Zebrafish differen |
| | 44 | 58 | 4.9 | 673 | 20 | AAX39799 | Gastric cancer ass |
| | 45 | 57.6 | 4.9 | 1182 | 21 | AAA78424 | Human secreted pro |

RESULT 4
AAX10455/c
ID AAX10455 standard; DNA; 127 BP.
XX
AC AAX10455;
XX
DT 30-MAR-1999 (first entry)
XX
DE Human biallelic polymorphic DNA fragment WI-11758.
XX
KW Polymorphism; biallelic; human; forensic; paternity testing; disease;
KW detection; phenotypic typing; characteristic; infection; hereditary;
KW autoimmune disease; cancer; inflammation; drug; therapy; medicament;
KW treatment; marker; ss.
XX
OS Homo sapiens.
XX
PN WO9820165-A2.
XX
PD 14-MAY-1998.
XX
PF 05-NOV-1997; 97WO-US20313.
XX
PR 06-NOV-1996; 96US-0030455.
XX
PA (WHED) WHITEHEAD INST BIOMEDICAL RES.
XX
PI Hudson T, Lander ES, Wang D;
XX
DR WPI; 1998-286974/25.
XX
PT New isolated nucleic acid segments from the human genome - used for
PT determining polymorphic forms for use in e.g. forensics, paternity
PT testing or phenotypic typing for disease
XX
PS Claim 1; Page 52; 310pp; English.
XX
CC AAX10269-X12937 are human DNA fragments which contain biallelic
CC polymorphic markers which have been isolated using the primers
CC represented in AAX09121-X10268. The base occupying the polymorphic site
CC is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments
CC can be used in methods for determining polymorphic forms in an individual
CC for use in e.g. forensics, paternity testing or for phenotypic typing for

CC diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan
CC syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,
CC familial hypercholesterolemia, polycystic kidney disease, hereditary
CC spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary
CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos
CC syndrome, osteogenesis imperfecta, acute intermittent porphyria,
CC autoimmune diseases, inflammation, cancer, diseases of the nervous
CC system, infection by pathogenic microorganisms, and characteristics such
CC as longevity, appearance (e.g. baldness, obesity), strength, speed,
CC endurance, fertility, and susceptibility or receptivity to particular
CC drugs or therapeutic treatments. The isolated polymorphic nucleic acid
CC segments can also be used to produce medicaments for the treatment or
CC prophylaxis of such diseases.

XX

SQ Sequence 127 BP; 35 A; 30 C; 25 G; 36 T; 1 other;

Query Match 8.9%; Score 106; DB 19; Length 127;
Best Local Similarity 98.1%; Pred. No. 5.9e-17;
Matches 106; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1013 TGATGGTGTACTTGGCACTCTCCATGTTCTACAAGAAGCTGTGGTGATTGGCCCTGTG 1072
Db 127 TGATGGTGTACTTGGCACTCTCCATGTTCTACAAGAAGCTGTGGTGATTGGCCCTGTG 68
Qy 1073 GTCTATCAGGCAGAAACACAGATTCTCCTCTAGTTAGTATAGCGCA 1120
Db 67 GTCTAYCAGGCAGAAACACAGATTCTCCTCTAGTTAGTATAGCGGA 20

RESULT 5

AAT19732

ID AAT19732 standard; cDNA to mRNA; 137 BP.

XX

AC AAT19732;

XX

DT 05-JUL-1996 (first entry)

XX

DE Human gene signature HUMGS00806.

XX

KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;
KW human; cloning; mapping; non-biased library; diagnosis; detection;
KW cell typing; abnormal cell function; ss.

XX

OS Homo sapiens.

XX

PN WO9514772-A1.

XX

PD 01-JUN-1995.

XX

PF 11-NOV-1994; 94WO-JP01916.

XX

PR 12-NOV-1993; 93JP-0355504.

XX

PA (MATS/) MATSUBARA K.

PA (OKUB/) OKUBO K.

XX

PI Matsubara K, Okubo K;

XX

DR WPI; 1995-206931/27.

XX

PT Identifying gene signatures in 3'-directed human cDNA library - e.g.
PT for diagnosis of abnormal cell function, by preparing cDNA that
PT reflects relative abundance of corresp. mRNA in specific human

PT tissues

XX

PS Claim 1; Page 459; 2245pp; Japanese.

XX

CC A single-stranded DNA (or its complementary strand or the corresp.

CC double-stranded DNA) which comprises one of the 7837 "GS" sequences
 CC given in AAT19001-T26837 and which is able to hybridise to part of
 CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)
 CC sequences were obtained from 3'-directed cDNA libraries prepared
 CC from various human tissues; synthesis of cDNA was initiated from the
 CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-
 CC untranslated sequence is unique to a particular mRNA species, almost
 CC all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library
 CC is constructed so as to reflect accurately the relative abundance of
 CC different mRNAs in the particular tissue from which it was derived.
 CC The appearance frequency of a given GS in a cDNA library can be
 CC determined (esp. using primers and probes derived from the GS
 CC sequences) as a means of diagnosing abnormal cell function or for
 CC recognising different cell types.

XX

SQ Sequence 137 BP; 40 A; 29 C; 29 G; 39 T; 0 other;

Query Match 8.4%; Score 99.4; DB 16; Length 137;
 Best Local Similarity 99.0%; Pred. No. 2.5e-15;
 Matches 100; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1020 GATCTTGGCACTCTCCATGTTCTACAAGAAGCTGTGGTGATTGCCCTGGTCTATC 1079
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Db 1 gatcttggcacttcatgttctacaagaagctgtggtgattgccctgtggtctatc 60

Qy 1080 AGGCAGAAAACCACAGATTCTCCTCTAGTTAGTATAGCGCA 1120
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Db 61 aggcgaaaaccacagattctcctctagtttagtatacgcca 101

Issued:

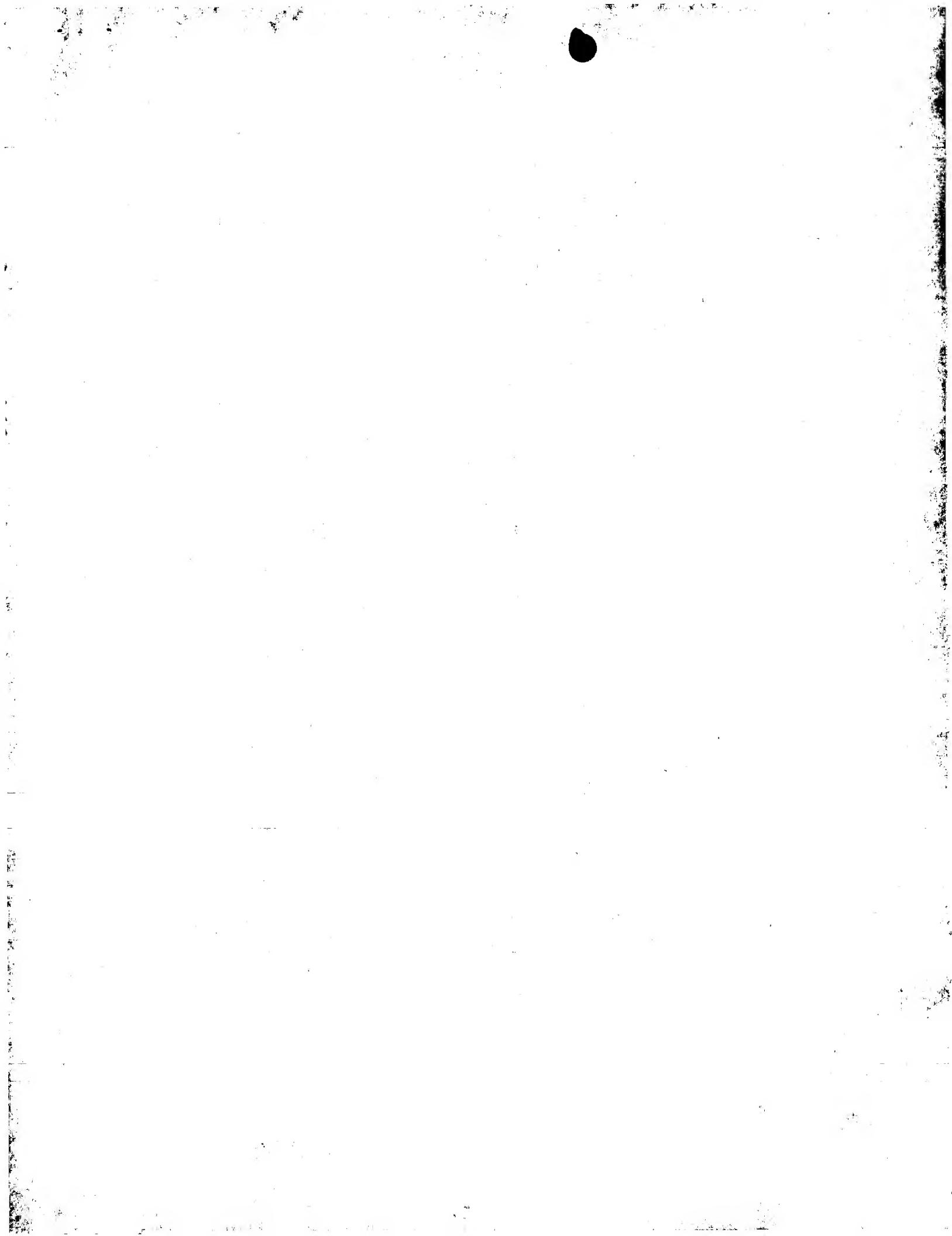
SUMMARIES

| Result | Query | | | | | Description | |
|--------|-------|-------|-------|--------|-------|-------------------|-------------------|
| | No. | Score | Match | Length | DB ID | | |
| | 1 | 69 | 5.8 | 1777 | 4 | US-09-058-260-25 | Sequence 25, Appl |
| | 2 | 69 | 5.8 | 1924 | 4 | US-09-058-260-29 | Sequence 29, Appl |
| | 3 | 69 | 5.8 | 2315 | 4 | US-09-058-260-9 | Sequence 9, Appli |
| | 4 | 60.2 | 5.1 | 2793 | 1 | US-08-209-747-1 | Sequence 1, Appli |
| | 5 | 60.2 | 5.1 | 2793 | 1 | US-08-458-298-1 | Sequence 1, Appli |
| | 6 | 59 | 5.0 | 6139 | 2 | US-08-751-767A-7 | Sequence 7, Appli |
| | 7 | 58.4 | 4.9 | 247 | 1 | US-08-594-031-103 | Sequence 103, App |
| | 8 | 56 | 4.7 | 2504 | 2 | US-08-946-412-1 | Sequence 1, Appli |
| | 9 | 55.4 | 4.7 | 9542 | 4 | US-08-968-685A-9 | Sequence 9, Appli |
| | 10 | 54.2 | 4.6 | 1397 | 3 | US-09-188-930-231 | Sequence 231, App |
| | 11 | 54 | 4.5 | 624 | 2 | US-08-713-000-9 | Sequence 9, Appli |
| | 12 | 54 | 4.5 | 624 | 2 | US-08-975-316-9 | Sequence 9, Appli |
| | 13 | 54 | 4.5 | 624 | 4 | US-09-211-710-9 | Sequence 9, Appli |
| | 14 | 54 | 4.5 | 684 | 2 | US-08-975-316-45 | Sequence 45, Appl |
| | 15 | 54 | 4.5 | 1785 | 2 | US-08-975-316-48 | Sequence 48, Appl |
| | 16 | 53.4 | 4.5 | 480 | 3 | US-09-188-930-206 | Sequence 206, App |
| | 17 | 53.4 | 4.5 | 2580 | 3 | US-09-050-863-2 | Sequence 2, Appli |
| | 18 | 53.4 | 4.5 | 3489 | 2 | US-08-728-323A-1 | Sequence 1, Appli |
| c | 19 | 53.4 | 4.5 | 5452 | 2 | US-09-130-114-1 | Sequence 1, Appli |
| | 20 | 53.4 | 4.5 | 9600 | 4 | US-08-910-647-1 | Sequence 1, Appli |
| | 21 | 53.4 | 4.5 | 10596 | 1 | US-07-884-811-15 | Sequence 15, Appl |
| | 22 | 53.4 | 4.5 | 10596 | 1 | US-07-885-971-15 | Sequence 15, Appl |
| | 23 | 53.4 | 4.5 | 10596 | 1 | US-08-087-783A-15 | Sequence 15, Appl |
| | 24 | 53.4 | 4.5 | 10596 | 1 | US-08-194-088B-15 | Sequence 15, Appl |
| | 25 | 53.4 | 4.5 | 10596 | 2 | US-08-194-087-15 | Sequence 15, Appl |
| | 26 | 53.4 | 4.5 | 10596 | 5 | PCT-US93-04648-15 | Sequence 15, Appl |
| c | 27 | 53.4 | 4.5 | 32207 | 2 | US-08-770-379-20 | Sequence 20, Appl |
| c | 28 | 53.4 | 4.5 | 32207 | 4 | US-08-757-669A-20 | Sequence 20, Appl |
| | 29 | 52.4 | 4.4 | 1280 | 3 | US-09-188-930-246 | Sequence 246, App |
| | 30 | 52 | 4.4 | 203 | 4 | US-09-043-303-7 | Sequence 7, Appli |
| | 31 | 51.6 | 4.3 | 2338 | 1 | US-08-425-069-1 | Sequence 1, Appli |
| | 32 | 51.6 | 4.3 | 2338 | 2 | US-08-317-844B-1 | Sequence 1, Appli |

| | | | | | | | |
|---|----|------|-----|-------|---|-------------------|-------------------|
| c | 33 | 51.6 | 4.3 | 16442 | 3 | US-08-781-891-208 | Sequence 208, App |
| c | 34 | 51.4 | 4.3 | 562 | 2 | US-08-975-316-53 | Sequence 53, Appl |
| c | 35 | 51.2 | 4.3 | 397 | 3 | US-09-253-691-3 | Sequence 3, Appli |
| c | 36 | 50.8 | 4.3 | 758 | 2 | US-08-927-722-1 | Sequence 1, Appli |
| c | 37 | 50 | 4.2 | 154 | 1 | US-08-469-802B-6 | Sequence 6, Appli |
| c | 38 | 50 | 4.2 | 154 | 2 | US-08-267-803B-6 | Sequence 6, Appli |
| c | 39 | 50 | 4.2 | 2214 | 3 | US-08-864-038A-1 | Sequence 1, Appli |
| c | 40 | 50 | 4.2 | 3331 | 3 | US-08-864-038A-2 | Sequence 2, Appli |
| c | 41 | 50 | 4.2 | 3331 | 3 | US-08-864-038A-4 | Sequence 4, Appli |
| c | 42 | 49.8 | 4.2 | 195 | 1 | US-08-469-802B-2 | Sequence 2, Appli |
| c | 43 | 49.8 | 4.2 | 195 | 2 | US-08-267-803B-2 | Sequence 2, Appli |
| c | 44 | 49.8 | 4.2 | 234 | 1 | US-08-469-802B-3 | Sequence 3, Appli |
| c | 45 | 49.8 | 4.2 | 234 | 2 | US-08-267-803B-3 | Sequence 3, Appli |

SUMMARIES

| Result | Query | | | | | Description |
|--------|-------|-------|-------|--------|----------|--------------------|
| | No. | Score | Match | Length | DB | |
| c 1 | 986.2 | 83.1 | 995 | 106 | AL573636 | AL573636 AL573636 |
| c 2 | 963.6 | 81.2 | 1020 | 105 | AL524028 | AL524028 AL524028 |
| c 3 | 957.4 | 80.7 | 971 | 106 | AL532725 | AL532725 AL532725 |
| c 4 | 916 | 77.2 | 922 | 106 | AL582883 | AL582883 AL582883 |
| c 5 | 911.2 | 76.8 | 997 | 106 | AL574296 | AL574296 AL574296 |
| c 6 | 892.6 | 75.2 | 908 | 106 | AL572499 | AL572499 AL572499 |
| c 7 | 889.8 | 75.0 | 930 | 106 | AL581599 | AL581599 AL581599 |
| c 8 | 885.4 | 74.6 | 904 | 106 | AL580926 | AL580926 AL580926 |
| c 9 | 883.2 | 74.4 | 944 | 106 | AL568215 | AL568215 AL568215 |
| c 10 | 875.2 | 73.7 | 950 | 106 | AL575770 | AL575770 AL575770 |
| c 11 | 860.6 | 72.5 | 879 | 106 | AL536824 | AL536824 AL536824 |
| c 12 | 860.4 | 72.5 | 893 | 106 | AL549390 | AL549390 AL549390 |
| c 13 | 821 | 69.2 | 875 | 106 | AL563367 | AL563367 AL563367 |
| c 14 | 807 | 68.0 | 884 | 106 | AL550145 | AL550145 AL550145 |
| c 15 | 730.6 | 61.6 | 769 | 106 | AL578135 | AL578135 AL578135 |
| c 16 | 726.4 | 61.2 | 866 | 106 | AL572811 | AL572811 AL572811 |
| c 17 | 720 | 60.7 | 909 | 106 | AL567329 | AL567329 AL567329 |
| c 18 | 689.2 | 58.1 | 872 | 106 | AL563368 | AL563368 AL563368 |
| c 19 | 680.4 | 57.3 | 831 | 106 | AL570881 | AL570881 AL570881 |
| c 20 | 669.2 | 56.4 | 957 | 172 | BF980699 | BF980699 602303734 |
| c 21 | 667.4 | 56.2 | 838 | 171 | BF967791 | BF967791 602287226 |
| c 22 | 627.4 | 52.9 | 696 | 115 | AW411314 | AW411314 fh11f01.y |
| c 23 | 606 | 51.1 | 700 | 155 | BG572002 | BG572002 602592457 |
| c 24 | 596.6 | 50.3 | 694 | 106 | AL581189 | AL581189 AL581189 |
| c 25 | 586.8 | 49.4 | 627 | 114 | AW337246 | AW337246 xw82g01.x |
| c 26 | 584.2 | 49.2 | 940 | 106 | AL575932 | AL575932 AL575932 |
| c 27 | 561.4 | 47.3 | 569 | 114 | AW305004 | AW305004 xv98c02.x |
| c 28 | 556.6 | 46.9 | 604 | 114 | AW273163 | AW273163 xr34e07.x |
| c 29 | 552.6 | 46.6 | 655 | 122 | AW953956 | AW953956 EST365921 |
| c 30 | 548.8 | 46.2 | 582 | 106 | AL567777 | AL567777 AL567777 |
| c 31 | 532.6 | 44.9 | 615 | 118 | AW605330 | AW605330 QV3-DT004 |
| c 32 | 524 | 44.1 | 593 | 112 | AW129472 | AW129472 xe16b10.x |
| c 33 | 519.8 | 43.8 | 616 | 106 | AL581551 | AL581551 AL581551 |
| c 34 | 509.6 | 42.9 | 560 | 19 | AI347938 | AI347938 qp60h02.x |
| c 35 | 509.4 | 42.9 | 547 | 138 | BE646353 | BE646353 7e85d03.x |
| c 36 | 508.8 | 42.9 | 548 | 173 | BG058737 | BG058737 naf09h08. |
| c 37 | 507.8 | 42.8 | 518 | 116 | AW467330 | AW467330 he09d05.x |
| c 38 | 505.6 | 42.6 | 533 | 116 | AW473350 | AW473350 xy15b04.x |
| c 39 | 502.8 | 42.4 | 527 | 166 | BE349631 | BE349631 ht58h04.x |
| c 40 | 502 | 42.3 | 535 | 165 | BE245501 | BE245501 TCBAP1D32 |
| c 41 | 499.8 | 42.1 | 541 | 117 | AW515953 | AW515953 xy02h07.x |
| c 42 | 496 | 41.8 | 563 | 166 | BE328026 | BE328026 hu31h08.x |
| c 43 | 493.2 | 41.6 | 535 | 117 | AW513876 | AW513876 xo50e09.x |
| c 44 | 493 | 41.5 | 539 | 117 | AW517499 | AW517499 xq10e03.x |
| c 45 | 490 | 41.3 | 490 | 105 | AL044787 | AL044787 DKFZp434M |



| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|--|------------------------------------|------------------|
| 1 | 27 | tnf same receptor same releasing same enzyme | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/09/16 10:24 |
| 2 | 10 | (tnf same receptor same releasing same enzyme) and screen\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/09/16 10:27 |
| 3 | 2 | gatanaga-t.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/09/16 10:27 |
| 4 | 5 | granger-g.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2002/09/16 10:28 |